SAEGIL ENGINEERING & CONSULTING CO., LTD.



CIVIL WORKS



URBAN PLANNING



ROAD



BRIDGE



UNDERGROUND FACILITIES

SLOPE



MEASUREMENT



EXCAVATION

OVERVIEW

INTRODUCTION

HISTORY

ORGANIZATION

MAJOR WORK FIELD

LOCATION

MAJOR ACHIEVEMENTS

KOREA

OVERSEAS

OVERSEAS DESIGN

ANGOLA

SRI-LANKA

ALGERIA

KAZAKHSTAN

AZERBAIJAN

VIETNAM

MYANMAR

QATAR

SAUDI ARABIA

SIERRA LEONE

FIELD MEASUREMENT

MEASURING EQUIPMENTS
MEASURING EQUIPMENT RETENTION



HISTORY

ORGANIZATION

MAJOR WORK FIELD

LOCATION

INTRODUCTION

SAEGIL Engineering & Consulting Co., Ltd. (SAEGIL E&C) since 1991 has grown steadily on the strength of innovative technological development over the past twenty five years. It has emerged globally as one of the leading engineering and consulting firms in the fields of deep excavation, soil nailing, anchored retaining walls, sea-dikes and land-slide control works.

The core of our company culture is "Innovative Specialists". Our engineering experience has covered virtually all fields of civil engineering service but our past experience and efforts have been mainly concentrated on Geotechnical & Structure Engineering service such as deep excavation supporting system design, site investigation, underground passageway, common utility tunnel, bridge, and etc.

HISTORY

ORGANIZATION

MAJOR WORK FIELD LOCATION

INTRODUCTION

SAEGIL Engineering & Consulting Co., Ltd 's impressive reputation as an excellent engineering firm is well demonstrated by the fact that it is carrying out numerous projects in Korea and Overseas as follows.

- Togok Samsung Project (Excavation depth(D):45m, Area(A):80,000 m²)
- United States Embassy Seoul, Korea Project (D:18.4m, A:8,288 m²)
- Chinese Embassy Seoul, Korea Project (D:13.9m, A:3,471 m²)
- Seo-Cho S-Project (D:35.8m, A:11,353 m²)
- Korea National Archives Project (D:26.0m, A:17,053 m²)
- Angola Three Tower Project (D:16.80m, A:10,436 m²)
- Algeria C.P.E & I.A.P Project (A:40,171 m²)
- Sri-Lanka Housing Project (D:9.76m, A:3,678 m²)
- Haeundae tourist resort development project (D:31.12m, A:197,534m²)
- New Seoul City Hall project (D:26.35m, A:7,805m²)
- Hanoi City Complex Project (D:23.56m, A:13,249m²)
- North An-Khanh New city project 1st phase (D:0.5~8.0m, A:80,068m²)
- Waterfront Integrated Resort Project in Sri-Lanka (D:0.97~17.29m, A:32,913m²)
- Asia Royal Hospital AR3 Project in Myanmar (D:1.2~6.0m, A:1,660m²)

SAEGIL Engineering & Consulting Co., Ltd has successfully worked in a wide range of projects in every phase of the engineering cycle including project development, feasibility studies, consulting, basic and detailed engineering, construction supervision and measurement, etc. As the frontier of this new millennium, SAEGIL E&C would like to reconfirm its uncompromising commitment for customer satisfaction and to meet the challenges with a view to make our globe a better place to live in through continuous R&D.



HISTORY ORGANIZATION

MAJOR WORK FIELD LOCATION

HISTORY

- 1991. 06. Establishes Company (Saegil Engineering Co., Ltd)
 - **09.** Registers Business (Engineering Service)
- **1992. 02.** Registers Construction Supervision Service (Civil Engineering Construction)
 - 07. Establishes Research Institute
 - 09. Registers Membership in Korea Geotechnical Society
- 1993. 04. Registers Membership in Korea Engineering & Consulting Association
 - 05. Registers Membership in Korean Association of Surveying & Mapping
 - **07.** Registers Membership in Korean Engineering Service Association (Geotechnical, Structural, Road & Airport, Water Resource Development and Urban Planning)
- **1994. 03.** Registers Membership in Korean Engineering Service Association (Transportation)
 - **10.** Registers Membership in Korean Engineering Service Association (Water Supply & Sewerage)
- **1995. 01.** Registers Membership in Korean Engineering Service Association (Landscape Architecture)
 - **06.** Registers Membership in Korean Engineering Service Association (Agriculture & Fishery)
- 1996. 12. Designated as a Research Institute for Exemption from Military Service
- 1998. 08. Registers Public Survey Industry Service
- **1999. 01.** Registers Membership in Korean Engineering Service Association (Water Quality Management, Waste Disposal)
 - **06.** Registers Membership in Korean Engineering Service Association (Harbor & Coast)
 - 11. Acquires ISO9001
- 2001. 04. Registers Construction Supervision Service (General)



HISTORY

- **2001. 12.** Registers Membership in Korean Engineering Service Association (Atmospheric Management)
- **2002. 04.** Registers Membership in Korean Engineering Service Association (Construction Safety Management)
 - **05.** Registers a Specialized Safety Diagnosis Agency (Bridges and Tunnels)
- **2003. 04.** Change Company Name into Saegil E&C (Saegil Engineering & Consulting Co., Ltd)
- 2007. 02. Registers International Contractor (Construction Engineering)
 - **03.** Registers Membership in Korean Engineering Service Association (Noise and Vibration)
- **2012. 03.** Registers Membership in Korean Engineering Service Association (Natural Soil Environment)
- **2014. 07.** Establishment of Overseas Subsidiary Branch (Sri Lanka) SAEGIL E&C LANKA LIMITED
 - **12.** Registers Construction Engineering Service (Design and Construction Project Management)
- **2015. 08.** Registers Membership in Korean Engineering Service Association (Railway)
- **2017. 08.** Relocation of Office to Songpa Terra Tower 2
- 2018. 01. Registers Specialized Agency for Underground Safety Impact Assessment
- 2021. 11. Registers DesignVE Specialist of Public Procurement Service
- 2023. 05. Acquires ISO45001
 - 08. Relocation of Headquarters to Seoul



HISTORY ORGANIZATION

MAJOR WORK FIELD

LOCATION

MAJOR WORK FIELD

- •Deep Excavation & Support Systems
- •Foundation / Ground Improvement
- •Site Planning & Development
- •Tunnels & Underground Facilities
- •Urban Building, Tunnel, Subway
- •Computerized Management Systems
- •Computer Aided Design & Engineering
- •Measurement Automation system
- •Municipal Water & Sewage Treatment
- •Industrial Wastewater Treatment
- •Solid Waste Management
- •Environmental Impact Assessment
- •Road, Bridge, Airports
- Ports & Offshore Structures
- •Dam, Sea-Dike and Water Resources
- •Software Development





Urban planning

Deep Excavation



Slope



Civil works



Road



Measurement



Bridge



Underground Facilities

INTRODUCTION HISTORY ORGANIZATION MAJOR WORK FIELD LOCATION

LOCATION



•A D D R E S S : A-724, 201, Songpa-daero, Songpa-gu, Seoul, Republic of Korea

•TELEPHONE: 82-2-2191-0000

•FACSIMILE: 82-2-418-0904

•HOMEPAGE: http://www.saegil.co.kr

KOREA

OVERVIEW

KOREA

DESIGN

Duration	Project	Excavation Depth (m)	Area (m²)
1998~2000	Do-Gok Samsung Project	45	80,000
2001	Chinese Embassy Seoul, Korea Project	13.9	3,471
2002	Seo-Cho S-Project	35.3	11,353
2003	United States Embassy Seoul, Korea Project	18.4	8,288
2003	Yong-San Station Project	29.8	23,790
2004	Samsung Seoul Hospital Project	34.9	13,154
2004	Kyunggi Province Seorim spa Project	11.8	10,316
2005	Yong-pyong 4th Condo Project	31.8	7,703
2006	Kangwon Land Casino Extension Project	9.2	6,791
2007	Sangamdong(DMC) Woori Bank Project	27.87	7,829
2008	Dongdaemun World Design Park & Complex Project	14.44	48,936
2008	New Seoul City Hall Project	26.35	7,805
2009	A Block project of Songdo science village streetmall in Incheon	13.0	38,521
2010	Haeundae tourist resort development Project	31.12	197,534
2011	Hallyuworld zone 1 (5,6 BL) project in Goyang Tourist & Cultural Complex	20.30~30.45	56,447
2012	City tower project in Chungna, Incheon	10.45~26.25	28,896
2013	Samsung Changwon Hospital Project	7.58~35.21	7,700
2014	Samsung Seoul Hospital Future Medical Building Project	20.3~30.6	6,037
2014	Magok Home & Shoping Project	20.7~26.0	4,940

OVERVIEW

KOREA

DESIGN

Duration	Project	Excavation Depth (m)	Area (m²)
2015	UNIST(Ulsan National Institute of Science and Technology) Project	1.00~10.90	30,511
2016	National Aviation Museum of Korea Project	2.90~7.80	10,727
2016	BIFC(Busan International Finance Center) Project	18.81~24.71	10,780
2016	Gangbuk Samsung Hospital Project	1.00~26.20	5,950
2016	Pyeongtaek Adidas Logistics Center Project	-	22,284
2017	Korea University SK Future Hall Project	5.16~21.94	7,003
2017	Hyungji Global Fashion Complex Center Project	6.00~6.50	12,501
2017	Samsung Electronics Pyeongtaek ESSbuilding Project	0.70~1.40	1,851
2017	Gyeongpo Olympic Count Project	4.50~27.30	11,127
2018	Samsung Electronics Pyeongtaek Logistics Center Project	7.00	71,415
2019	Pearl Abyss headquarters building Project	20.36~27.59	6,282
2020	Sk siltron welfare building Project	1.06~3.86	4,734
2020	PNPSECURE Magok Building Project	16.26	3,969
2020	Daejeon Expo Science Complex Project	15.76~26.36	40,834
2021	Gangneung The Ocean 259 Project	~7.46	57,302
2022	KOREA SUPERFREEZE Busan Premium Cold Chain Logistics Center Project	~15.75	26,309
2022	Yonsei University Pharmaceutical Bio Commercialization Center Project	1.00~8.56	8,648
2022	Hanwha Life Insurance Daegu building Project	2.45	1,332
2023	Samcheok Medical Center Project	7.11~9.96	13,311



OVERSEAS

KOREA

FIELD MEASUREMENT

Duration	Project	Excavation Depth (m)	Area (m²)
2000~2002	Seocho C-Block New Construction	32.90~35.80	19,364.00
2003	Mapo HYUDAI HYEL Project	20.00~30.00	14,274.00
2004	Busan Oncheon-dong A-STAR Project	13.60~21.70	9,987.07
2004	Jeju University Hospital Project	10.00~20.00	27,264.00
2005	Shinsagae Department Store in Jukjeon	26.00~32.00	20,123.04
2005	Sindorim TECHNOMART Project	22.49~32.37	23,288.00
2006	Pyeongtaek civil station building Project	0.75~25.50	5,331.21
2006	NC soft R&D center Project	31.41~34.81	2,092.19
2007	Y22 Park.1 Project	20.50~36.40	4,646.50
2008	Busan Centum Science Park Project	28.00~34.00	9,900.00
2009	Goyang Central Bus Terminal Project	23.30~30.00	27,055.00
2010	Pankyo Techno Valley global R&D Center	11.64~22.00	9,924.76
2010	Honam High-speed Railroad Construction, Lot No.3-2	15.00~23.00	30,265.00
2011	Proton Center Extension Work in Samsung Medical Center	18.30~26.70	3,323.62
2012	Hwajeong Jugong Apt Reconstruction Project in Gwangju	15.00~20.00	156,312.00
2012	Gwanghwamun D Tower New Construction	27.19~31.00	8,910.43
2013	Gwangmyeong IKEA New Construction	13.61~18.00	28,891.96
2013	Underground public Pedestrian Facility Project in Gwanghwamun Station Connection	4.40~22.78	2,875.50
2014	New town 1-3 area Construction in Bugahyeon-dong	16.00~31.00	247,668.00

KOREA

OVERSEAS

KOREA

FIELD MEASUREMENT

Duration	Project	Excavation Depth (m)	Area (m²)	
2015	Songdo Korean American Town Project	G.L(-)12.70~(-)14.40	23,588	
2015	Samsung Life Insurance Cheongdam-dong Building Project	F.H(+)3.04~(-)9.76	4,427	
2016	Wirye New Town E-Mart Project	E.L(+)3.09~(+)8.99	16,820	
2016	Yeouido Parc One Project	-	46,465	
2017	Goyang Logistics Park Project	E.L(+)12.44~(+)20.64	56,359	
2018	KT Yongsan Data Center Project	-	10,702	
2018	Seomyeon IPARK Project	-	83,092	
2018	Kookmin Bank Nowon Branch Project	H=27.21~24.21	1,368	
2019	Pyeongtaek Station SK VIEW Project		73,997	
2020	Gangbuk Samsung Hospital Project	G.L(-)3.87~(-)10.87	4,492	
2020	Teachers Pension Seoul Hall Project	G.L(-)28.97~(-)33.08	8,243	
2021	Ulsan Taehwa River IPARK Officetel Project	G.L(-)14.53~(-)20.70	2,724	
2021	Musinsa P1 Project	H=17.74	1,343	
2021	Pyeongtaek Jije Station Xi Project	G.L(-)8.90	-	
2021	Gunsan Lake Park IPARK Project	E.L(+)8.40~(+)36.00	42,050	
2022	Dalseo Prugio Signature Project	31.80	17,212	
2022	Singil 6-dong Community Service Center Project	E.L(+)10.74	1 -	
2023	Housing Redevelopment Project in Hwachang District, Anyang	E.L(+)14.80~(+)22.15	13,944	



OVERSEAS

OVERSEAS

DESIGN

Duration	Project	Excavation Depth (m)	Area (m²)	Remark	
2004~2005	Sonangol Three Tower Project	15.0	7,174	Angola	
2005	ESSA Compound Project	-	107,259	Angola	
2005	Conference Center Project	8.0	2,128	Angola	
2005	Shopping Angola Project	-	13,090	Angola	
2005~2006	Atyrau Reiviera Housing Project	-	152,556	Kazakhstan	
2006	C.P.E & I.A.P Project	-	40,171	Algeria	
2006~2007	Sri-Lanka Housing Project	9.76	3,678	Sri-Lanka	
2006~2008	Hanoi City Complex Project	23.56	13,249	Vietnam	
2007~2008	Luanda & Houston Tower Project	24.34	859	Angola	
2007~2008	Express Residential Complex Project	18.7	42,998	Kazakhstan	
2007~2008	Mega Residence Project	17.8	245,852	Kazakhstan	
2008~2009	Habico Tower Project	24.34	859	Vietnam	
2008~2011	North An-Khanh New city project 1st phase	18.7	42,998	Vietnam	
2009~2012	BIDV Diamond Tower Project	20.5~22.6	3,065	Vietnam	
2013~2014	Embassy of The Republic of KOREA	1.47~4.46	3,165	Qatar	
2012~2014	Waterfront Integrated Resort Project	0.97~17.29	32,913	Sri-Lanka	
2014~2015	Asia Royal Hospital AR3 Project	0.5~6.0	1,660	Myanmar	

KOREA



OVERSEAS DESIGN



CONTENTS

MYANMAR QATAR

ANGOLA

THREE TOWER PROJECT
ESSA COMPOUND PROJECT
CONFERENCE CENTER PROJECT
TOTAL APARTMENT PROJECT
SERVICED RESIDENCE-2 PROJECT
VIANA SHOPPING CENTER PROJECT
LUANDA & HOUSTON TOWER PROJECT
STADIUM PROJECT

SAUDI ARABIA SIERRA LEONE

SRI-LANKA

THE DAWSON GRAND RESIDENCIES PROJECT WATERFRONT INTERATED RESORT PROJECT

ALGERIA

C.P.E & I.A.P PROJECT

KAZAKHSTAN

EXPRESS RESIDENTIAL COMPLEX PROJECT MEGA RESIDENCE PROJECT

AZERBAIJAN

BAKU HOUSING COMPLEX(SKY PARK) PROJECT



CONTENTS

VIETNAM

HANOI CITY COMPLEX PROJECT HABICO TOWER PROJECT NORTH AN-KHANH NEW CITY PROJECT BIDV DIAMOND TOWER PROJECT

MYANMAR QATAR SAUDI ARABIA SIERRA LEONE

MYANMAR

ASIA ROYAL HOSPITAL AR3 PROJECT

QATAR

EMBASSY OF THE REPUBLIC OF KOREA

SAUDI ARABIA

THE KING ABDULLAH MEDICAL CITY PROJECT

SIERRA LEONE

FREETOWN CITY ADMINISTRATIVE COMPLEX PROJECT





ANGOLA











THREE TOWER PROJECT

PROJECT SUMMARY

PROGRAM MIXED USE TYPE

(OFFICE/APARTMENT/RETAIL)

LOCATION LUANDA, ANGOLA

 SITE AREA
 14,453m²

 FLOORS
 B2 / F20

 DESIGN YEAR
 2004~2005

DESIGN PROGRESS STAGE

- **(1) SCHEMATIC DESIGN**
- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

OPE ② TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

EXCAVATION DEPTH 15.0m **EXCAVATION AREA** 7,175m²



ESSA COMPOUND PROJECT

PROJECT SUMMARY

PROGRAM EDUCATIONAL FACILITIES

LOCATION LUANDA, ANGOLA

SITE AREA 107,259m²

ARCHITECT SPACE GROUP

DESIGN YEAR 2005

DESIGN SUMMARY

SCOPE ① MASTER PLAN DESIGN

② CIVIL WORKS DESIGN

DESIGN PROGRESS STAGE

① SCHEMATIC DESIGN

② DESIGN DEVELOPMENT

(3) CONSTRUCTION DOCUMENTS`

CONFERENCE CENTER PROJECT

PROJECT SUMMARY

LOCATION LUANDA, ANGOLA

SITE AREA 14,453m² BUILDING SIZE B2 / F2

ARCHITECT SPACE GROUP

DESIGN YEAR 2005

DESIGN SUMMARY

SCOPE ① TEMPORARY EARTH RETAINING WALL

& LATERAL SUPPORT DESIGN

② CIVIL WORKS DESIGN

EXCAVATION DEPTH 8.0m **EXCAVATION AREA** 2,128m²

DESIGN PROGRESS STAGE

① SCHEMATIC DESIGN

② DESIGN DEVELOPMENT

③ CONSTRUCTION DOCUMENTS





TOTAL APARTMENT PRO

PROJECT SUMINIARY

PROGRAM MIXED USE TYPE

LOCATION LUANDA, ANGOLA

SITE AREA 2,330m²

FLOORS B4 / F13

DESIGN YEAR 2006~2007

ARCHITECT SPACE GROUP

DESIGN SUMMARY

SCOPE (1) CIVIL WORKS DESIGN (2) EXCAVATION DESIGN

DESIGN PROGRESS STAGE

- (1) SCHEMATIC DESIGN
- (2) DESIGN DEVELOPMENT
- (3) CONSTRUCTION DOCUMENTS

SERVICED RESIDENCE -2 PROJECT

PROJECT SUMMARY

PROGRAM MIXED USE TYPE
LOCATION LUANDA, ANGOLA
SITE AREA 1,530m²
FLOORS B1/F20

DESIGN YEAR 2006~2007

ARCHITECT SPACE GROUP

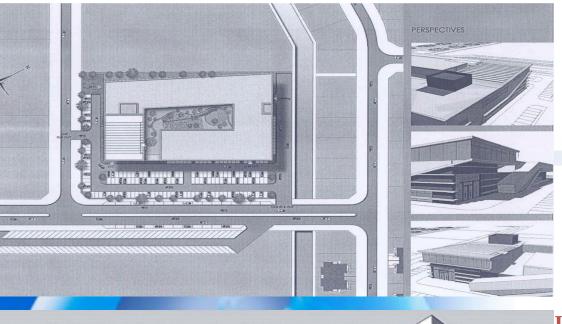
DESIGN SUMMARY

SCOPE ① CIVIL WORKS DESIGN

② EXCAVATION DESIGN

DESIGN PROGRESS STAGE

- ① SCHEMATIC DESIGN
- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**



VIANA SHOPPING CENTER PROJECT

PROJECT SUMMARY

PROGRAM SHOPPING CENTER **LOCATION** LUANDA, ANGOLA

SITE AREA 13,090m²

BUILDING SIZE F3

ARCHITECT SPACE GROUP

DESIGN YEAR 2005

DESIGN SUMMARY

SCOPE ① CIVIL WORKS DESIGN

(2) EXCAVATION DESIGN

DESIGN PROGRESS STAGE

① SCHEMATIC DESIGN

② DESIGN DEVELOPMENT

(3) CONSTRUCTION DOCUMENTS

LUANDA&HOUSTON TOWER PROJECT

PROJECT SUMMARY

PROGRAM MIXED USE TYPE LOCATION LUANDA, ANGOLA

SITE AREA 899.51m²
BUILDING SIZE B3 / F17

ARCHITECT SPACE GROUP **DESIGN YEAR** 2007~2008

DESIGN SUMMARY

SCOPE (1) CIVIL WORKS DESIGN

② EXCAVATION DESIGN

EXCAVATION DEPTH 22.5~23.5m **EXCAVATION AREA** 858.7m²

DESIGN PROGRESS STAGE

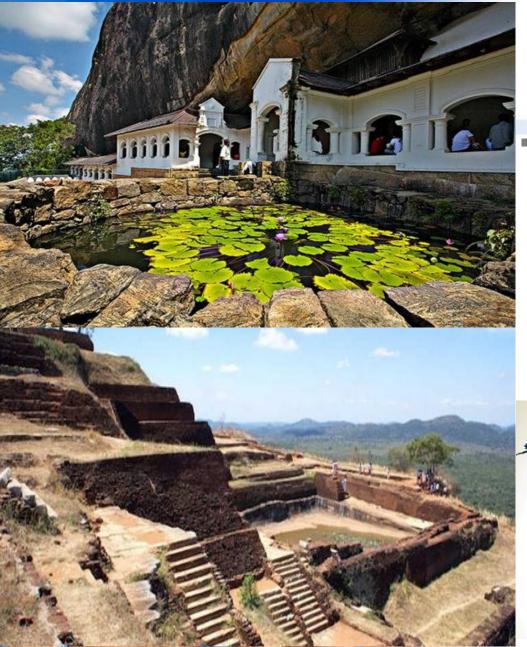
① SCHEMATIC DESIGN

2 DESIGN DEVELOPMENT

③ CONSTRUCTION DOCUMENTS



ANGOLA **SRI-LANKA** ALGERIA KAZAKHSTAN AZERBAIJAN VIETNAM MYANMAR QATAR SAUDI ARABIA SIERRA LEONE



SRI-LANKA









THE DAWSON GRAND RESIDENCIES PROJECT

PROJECT SUMMARY

PROGRAM PODIUM-PARKING

TOWER-RESIDENCE & STUDIO

(TOWER A)

LOCATION COLOMBO, SRI-LANKA SITE AREA

5,546m²

BUILDING SIZE F42

B1 / F38 (TOWER B)

ARCHITECT

SPACE GROUP

DESIGN YEAR 2006~2007

DESIGN SUMMARY

SCOPE (1) PILE FOUNDATION DESIGN

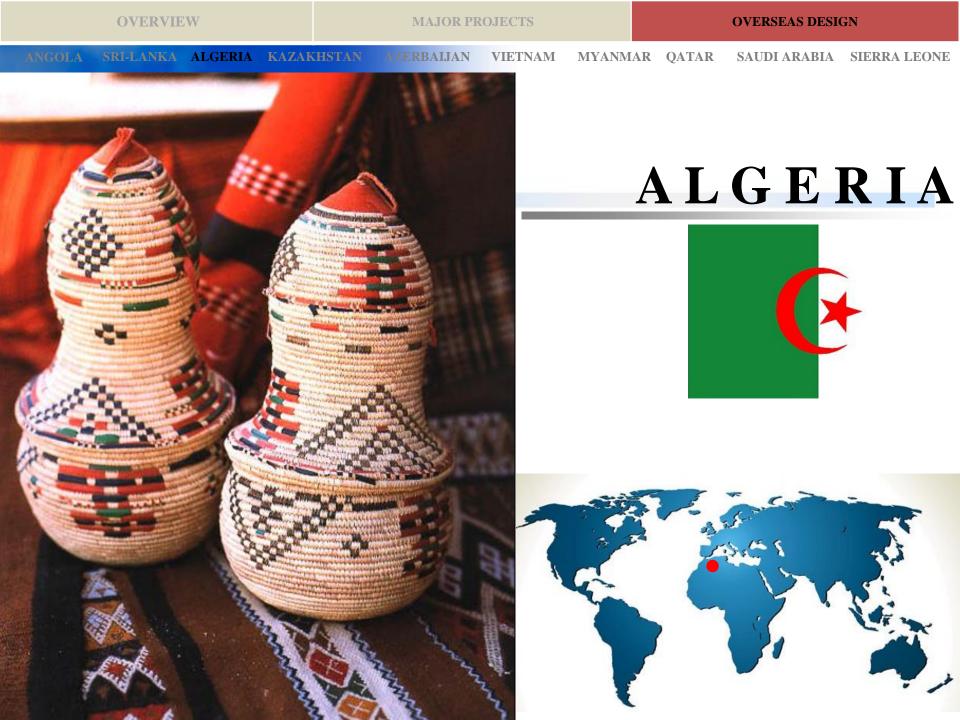
> 2 TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

DESIGN PROGRESS STAGE

- ① SCHEMATIC DESIGN
- **② DESIGN DEVELOPMENT**
- **③ CONSTRUCTION DOCUMENTS**







PROGRAM ARCHITECT **DESIGN YEAR**

PROJECT SUMMARY

EDUCATION FACILITY ACCOMMODATION AND PHYSICAL EXERCISE FACILITY

ORAN, ALGERIA

40,171m²

BUILDING SIZE B1/F11 (C.P.E)

B1/F21 (I.A.P)

SPACE GROUP

2006

DESIGN SUMMARY

SCOPE ① CIVIL WORKS DESIGN

DESIGN PROGRESS STAGE

- ① SCHEMATIC DESIGN
- **② DESIGN DEVELOPMENT**

ANGOLA SRI-LANKA ALGERIA KAZAKHSTAN AZERBAIJAN VIETNAM MYANMAR QATAR SAUDI ARABIA SIERRA LEONE



KAZAKHSTAN











A SRI-LANKA ALGERIA KAZAKHSTAN **AZERBAIJAN** VIETNAM MYANMAR QATAR SAUDI ARABIA SIERRA LEONE



AZERBAIZAN















HANOI CITY COMPLEX PROJECT

PROJECT SUMMARY

PROGRAM MIXED USE TYPE

(OFFICE/RESIDENCE/RETAIL ETC.)

LOCATION HANOI, VIETNAM

SITE AREA 14,095m²

BUILDING SIZE B5 / F65

ARCHITECT DOUL INTERNATIONAL, LTD.

DESIGN YEAR 2006~2008

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

② TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

EXCAVATION DEPTH 19.46~23.56m

EXCAVATION AREA 13,249m²

DESIGN PROGRESS STAGE

- ① SCHEMATIC DESIGN
- ② DESIGN DEVELOPMENT
- (3) CONSTRUCTION DOCUMENTS



- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**

ADDITIONAL WORKS AFTER DESIGN

① CONSULTING



NORTH AN-KHANH NEW CITY PROJECT 1st PHASE

PROJECT SUMMARY

PROGRAM VILLA, APARTMENT,

MIXED-USE, KINDERGARTEN

ELEMENTARY SCHOOL

LOCATION HANOI, VIETNAM

SITE AREA 345,384m²
BUILDING SIZE B1 / F23

ARCHITECT DONG-IL ARCHITECTS

DESIGN YEAR 2008~2011

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

② EXCAVATION DESIGN

EXCAVATION DEPTH 5.0~8.0m **EXCAVATION AREA** 80,068m²

DESIGN PROGRESS STAGE

① SCHEMATIC DESIIGN

② DESIGN DEVELOPMENT

③ CONSTRUCTION DOCUMENTS



BIDV DIAMOND TOWER PROJECT

PROJECT SUMMARY

PROGRAM OFFICE

LOCATION HANOI, VIETNAM

SITE AREA 3,344m²
BUILDING SIZE B4 / F30

ARCHITECT DOUL INTERNATIONAL, LTD

DESIGN YEAR 2009~2012

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

② TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

EXCAVATION DEPTH 20.5~22.6m **EXCAVATION AREA** 3,065m²

- ① SCHEMATIC DESIIGN
- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**





MYANMAR









ASIA ROYAL HOSPITAL AR3 PROJECT

PROJECT SUMMARY

PROGRAM MEDICAL FACILITY
LOCATION YANGON, MYANMAR

SITE AREA 2,225m²
BUILDING SIZE B1/F11

ARCHITECT SAMOO ARCHITECTS

& ENGINEER

DESIGN YEAR 2014~2015

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

② TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

EXCAVATION DEPTH 1.2~6.0m EXCAVATION AREA 1,660m²

- ① SCHEMATIC DESIGN
- ② DESIGN DEVELOPMENT
- ③ CONSTRUCTION DOCUMENTS





EMBASSY OF THE REPUBLIC OF KOREA

PROJECT SUMMARY

PROGRAM OFFICE

LOCATION DOHA, QATAR

SITE AREA 5,150m²
BUILDING SIZE B1 / F2

ARCHITECT SAMOO ARCHITECTS & ENGINEERS

DESIGN YEAR 2013~2014

DESIGN SUMMARY

SCOPE ① TEMPORARY EARTH RETAINING

WALL & LATERAL SUPPORT DESIGN

② CIVIL WORKS DESIGN

EXCAVATION DEPTH 1.47~4.46m **EXCAVATION AREA** 3,165m²

- ① SCHEMATIC DESIIGN
- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**

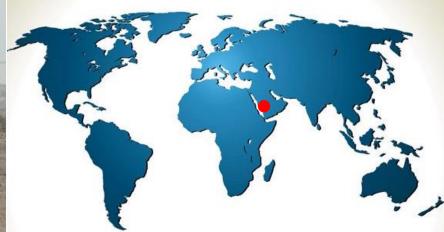
ANGOLA SRI-LANKA ALGERIA KAZAKHSTAN AZERBAIJAN VIETNAM MYANMAR QATAR SAUDI ARABIA SIERRA LEONE



SAUDI ARABIA









THE KING ABDULLAH MEDICAL CITY PROJECT

PROJECT SUMMARY

PROGRAM MEDICAL FACILITY

LOCATION MAKKAH, SAUDI ARABIA

SITE AREA 145,000m²
BUILDING SIZE B1 / F11
ARCHITECT DIYAR
DESIGN YEAR 2013

DESIGN SUMMARY

SCOPE ① EXCAVATION DESIGN

② CIVIL WORKS DESIGN

EXCAVATION DEPTH 0.2~8.3m **EXCAVATION AREA** 58,000m²

DESIGN PROGRESS STAGE

① TENDER SUPPORT



SIERRA LEONE







FREETOWN CITY ADMINISTRATIVE COMPLEX PROJECT

PROJECT SUMMARY

PROGRAM OFFICE FACILITY

LOCATION FREETOWN, SIERRA LEONE

SITE AREA 1,037m²
BUILDING SIZE B1 / F15

ARCHITECT SAMOO ARCHITECTS & ENGINEERS

DESIGN YEAR 2014

DESIGN SUMMARY

SCOPE ① PILE FOUNDATION DESIGN

② TEMPORARY EARTH RETAINING WALL & LATERAL SUPPORT DESIGN

③ CIVIL WORKS DESIGN

EXCAVATION DEPTH 14.4~17.5m **EXCAVATION AREA** 1,000m²

- ① SCHEMATIC DESIIGN
- ② DESIGN DEVELOPMENT
- **③ CONSTRUCTION DOCUMENTS**

FIELD MEASUREMENT









MEASURING EQUIPMENTS



MEASURING EQUIPMENTS

MEASURING EQUIPMENT RETENTION

MEASURING EQUIPMENTS



MEASURING EQUIPMENT RETENTION

NAME OF EQUIPMENT	STANDARD	UNIT	QUANTITY	REMARK
INCLNOMETER		SET	8	Measurement
- PROBE		EA	8	of the horizontal displacement
- CABLE(50M)	LOGGING	EA	8	for excavation back side
- INDICATOR	LOGGING	EA	4	
- DATAMATE		EA	4	
- CHARGE		EA	5	
WATER-LEVEL MATER		EA	5	Change measurement of the underground water level
LORD CELL		SET	2	Reaction force measurement
- INDICATOR - JUMP CABLE	V.W.TYPE	EA	2	of ground anchor
		EA	2	
- CHARGE		EA	2	
STRAIN GAUGE		SET	8	Measurement
- INDICATOR		EA		of strut deformation
- JUMP CABLE		EA	8 8 8	AND THE RESERVE OF THE PARTY OF
- CHARGE		EA	8	* - 10 10 10 10 10 10 10 10 10 10 10 10 10
TILTMETER		SET	3	Settlement measurement
- SENSOR		EA	3	of adjacent building
- INDICATOR	DIGITILTO9	EA		
- JUMP CABLE		EA	3 3 3	
- CHARGE		EA	3	
	OF MES			

CTANDADD

NAME OF FOUIDMENT

MEASURING EQUIPMENT RETENTION

NAME OF EQUIPMENT	STANDARD	UNIT	\mathbf{QU}	ANTI'	T
V.W.TYPE - READOUT		SET		3	
- INDICATOR		EA		3	
- JUMP CABLE		EA		3	
GRACK GAUGE		SET		2	
- DEMEC GAUGE		EA		2	
- REFERENCE BAR		EA		2	
DATA TAKER		SET		3	
- DATA LOGGER		EA		3	
- RS232 CABLE		EA		3	
- MODEM	DC2422	EA		2	
- CHARGE		EA		2	
SETTLEMENT GAUGE		SET		7	
- INDICATOR		EA		7	
SOIL NAIL PULLER				A.	
- DIAL GAUGE		EA		3	
- MAGNETIC BASE		EA	474	1	
- PULLER	0.10	EA		1	
NOISE MEASURING APPARATUS		SET		2	
VIBRATION MEASURING		SET		2	
APPARATUS	NEW SATERNAME				

REMARK

Size measurement of

Automatic measurement

Measurement of strut deformation

crack